

# AIR CARGO BUILDING C

**COA CONTRACT No. FC-6006007929-A**  
**WBS NUMBER -- D.07.55.009**  
**100% CONSTRUCTION DOCUMENTS ISSUED FOR BID SUBMITTAL**  
**NOVEMBER 25, 2014**

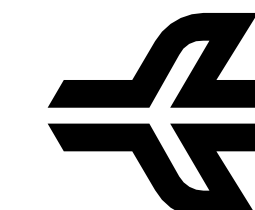


HARTSFIELD-JACKSON  
DEVELOPMENT PROGRAM



CITY OF ATLANTA, GEORGIA

*Hartsfield-Jackson*  
*Atlanta International Airport*

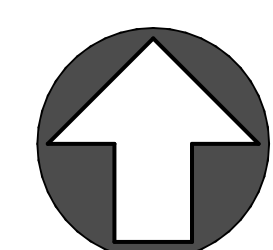
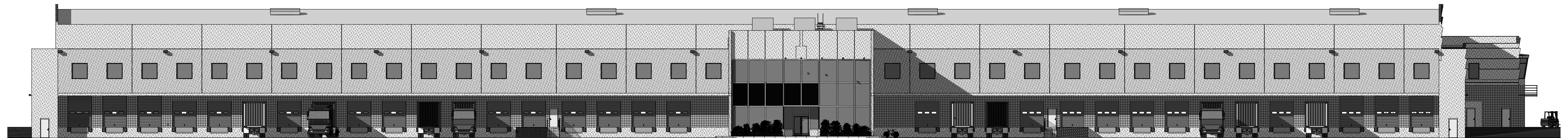


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COVER SHEET

SHEET NO.

G0.1.1











NOT RELEASED FOR CONSTRUCTION

AIR CARGO BUILDING C, 100% CONSTRUCTION DOCUMENTS ISSUED FOR BID, NOVEMBER 25, 2014





































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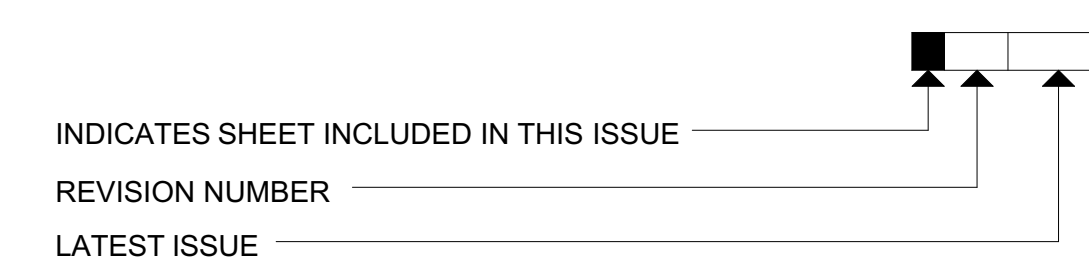
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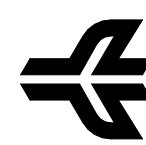
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CITY OF ATLANTA, GEORGIA



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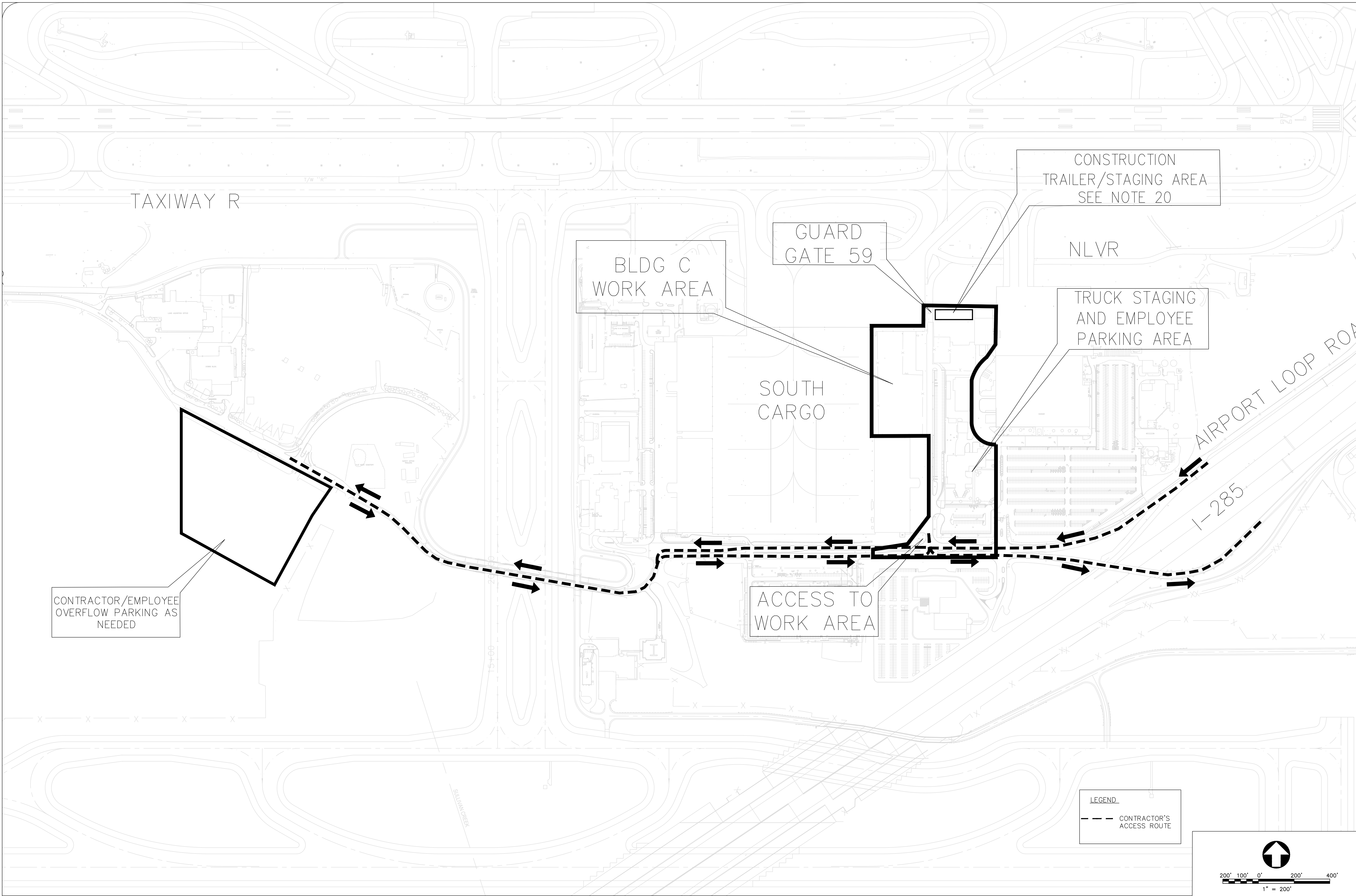
AIR CARGO BUILDING C

## INDEX OF DRAWINGS

WBS NUMBER: D.07.55.009	DRAWN BY: SK
FC NUMBER: FC-6006007929-A	DESIGNED BY: JWS
A/E PROJECT NUMBER: HII-0730621	CHECKED BY: TR
	APPROVED BY: WLP

	DATE:
	11/25/2014
	SCALE:
	N/A
	SHEET NO:
	G1.1.1





GENERAL NOTES

- ALL WORK SHALL COMPLY WITH APPLICABLE STATE, FEDERAL AND LOCAL CODES.
- ALL MATERIALS AND CONSTRUCTION METHODS TO BE IN ACCORDANCE WITH THE CITY OF ATLANTA HJIA STANDARDS, AS APPLICABLE.
- DEVIATION FROM THESE PLANS AND SPECIFICATIONS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE.
- CONTRACTOR IS RESPONSIBLE FOR NOTIFICATIONS AND LIAISON WITH UTILITY COMPANIES IN THE PROCESS OF LOCATING, RELOCATION AND TIE-IN TO PUBLIC UTILITIES.
- THERE MAY BE ADDITIONAL UTILITIES OTHER THAN THOSE SHOWN ON THESE PLANS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR LOCATIONS SHOWN AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS AND NECESSARY INVERTS OF ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE DEPARTMENT OF THE UTILITY COMPANIES. THE CONTRACTOR IS RESPONSIBLE FOR THE NOTIFICATIONS AND LIAISON WITH UTILITY COMPANIES IN THE PROCESS OF LOCATING, RELOCATING AND TIE-IN TO THE PUBLIC UTILITIES. IF NECESSARY, THE CONTRACTOR SHALL FILL EXISTING UTILITIES TO VERIFY LOCATION AND ELEVATION.
- IF CONTRACTOR DAMAGES ANY EXISTING UTILITIES DURING CONSTRUCTION, HE SHALL, AT HIS OWN EXPENSE, REPLACE OR REPAIR THE UTILITIES TO ORIGINAL CONDITION AND QUALITY, AS APPROVED BY THE ENGINEER AND REPRESENTATIVE OF THE APPROPRIATE UTILITY COMPANY.
- IN THE CASE OF UNFORESEEN CONSTRUCTION COMPLICATIONS OR DISCREPANCIES, THE CONTRACTOR IS TO NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO CONTINUING WITH THE WORK.
- ALL COORDINATES ARE BASED ON AIRPORT COORDINATE SYSTEM.
- ALL ELEVATIONS ARE FROM MEAN SEA LEVEL.
- ELEVATIONS INDICATED ARE TOP OF FINISH PAVEMENT.
- ALL EXCESS MATERIAL INCLUDING CLEARING, GRUBBING, DEBRIS,

- SOIL, AND ANY OTHER MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE.
- GATE 59 WILL BE ACTIVE AND OPERATIONAL DURING A PORTION OF THE CONSTRUCTION OF THIS PROJECT. THE NEW ESCORT GATE 70 WILL BE UNDER CONSTRUCTION AT APPROXIMATELY THE SAME TIME AT A LOCATION WEST OF TAXIWAY SC/SJ. GATE NO. 59 TO BE UTILIZED FOR ESCORTING CHECK IN UNTIL SUCH TIME THAT GATE 70 IS OPEN. ANY ACCESS TO AND EXIT FROM THE AOA SHOULD BE MADE THROUGH SECURITY GUARD POST NO. 59 UNTIL GATE 70 IS OPERATIONAL.
  - THE CONTRACTOR IS TO SUBMIT A PROJECT SECURITY PLAN TO THE DOA AND AIRPORT SECURITY FOR APPROVAL PRIOR TO CONSTRUCTION AND/OR IMPLEMENTING ANY SECURITY MODIFICATIONS. THE PLAN MUST ADDRESS, AT A MINIMUM, THE CONTRACTOR'S UNDERSTANDING OF: SECURING THE WORKSITE, KNOWLEDGE OF HAUL ROUTES, IF APPLICABLE, AND THE PROPER USE OF ATL SIDA BADGES. ALSO, THE TEMPORARY SIDA FENCE MUST BE APPROVED BY DOA SECURITY BEFORE CONSTRUCTION COMMENCES.
  - ALL PERSONNEL DRIVING ON THE AOA ARE REQUIRED TO TAKE THE DOA DRIVER CLASS.
  - THE ROADWAY USED BY THE CONTRACTOR FOR ACCESS OR HAULING TO THE SITE SHALL BE KEPT CLEAN AND ACCESSIBLE TO ALL OTHER SOUTH LOOP ROAD/SOUTH AIR CARGO TRAFFIC FOR THE ENTIRE DURATION OF THE PROJECT. HAUL TRUCKS MUST BE COVERED AND ANY SPILLAGE OR DEBRIS BUILDUP PROMPTLY REMOVED FROM ALL HAUL ROUTES ON AIRPORT AND PUBLIC ROADS. NO SEPARATE PAYMENT SHALL BE MADE FOR KEEPING THE ROADS CLEAR AND ACCESSIBLE.
  - THE CONTRACTOR SHALL CONTROL DUST AND DEBRIS FROM HIS OPERATION TO A LEVEL ACCEPTABLE TO THE CITY AT ALL TIMES. THE CONTRACTOR SHALL HAVE ON THE PROJECT SITE VACUUM SWEEPERS, WATERING TRUCKS AND OTHER EQUIPMENT NECESSARY TO CONTROL DUST AT ALL TIMES. ALL METHODS FOR CONTROLLING DUST SHALL BE SUBJECT TO THE CITY'S APPROVAL. DUST CONTROL SHALL BE STRICTLY MONITORED DUE TO ITS IMPACT ON AIRCRAFT SAFETY. FAILURE TO PROPERLY CONTROL DUST OR TO RESPOND TO ANY REQUEST TO DO SO WILL RESULT IN CONSTRUCTION ACTIVITIES BEING STOPPED.

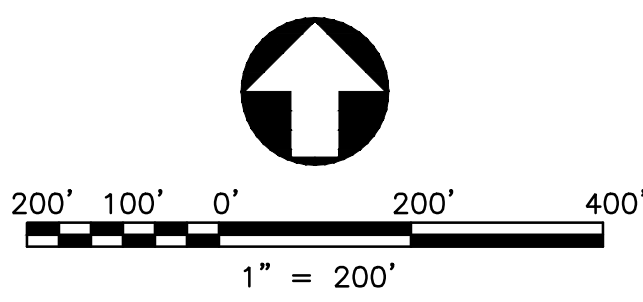
- ALL EXCESS MATERIAL PRODUCED BY THE CONTRACTOR'S OPERATIONS SHALL BE DISPOSED OF OFF AIRPORT PROPERTY AT NO COST TO THE CITY.
- THE CONTRACTOR SHALL COOPERATE WITH THE FAA AND THE CITY WHEN ALIGNING HIS CONSTRUCTION FLOODLIGHTS SO AS NOT TO INTERFERE WITH AIRCRAFT PILOTS OR AIR TRAFFIC CONTROLLERS VISION.
- FAA REGULATION FOR USE OF CRANES AND OTHER ELEVATED EQUIPMENT WILL BE STRICTLY ENFORCED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING ALL NECESSARY FORMS (7460-1) TO THE CITY AND OBTAINING FAA APPROVAL PRIOR TO CONTRACTOR'S USE OF ANY ELEVATED EQUIPMENT. AN FAA NOTICE OF PROPOSED CONSTRUCTION OR ALTERATION (FORM 7460-1) MUST BE COMPLETED AND SUBMITTED TO THE FAA 45 DAYS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR WITH THE APPROVAL OF THE CITY SHALL ESTABLISH THE EXACT LIMITS OF THE STAGING AREA FOR MATERIAL STOCKPILING, BATCH PLANTS AND OFFICE TRAILERS IN THE AREAS SHOWN ON THE CONSTRUCTION CONTROL PLAN. THE STAGING AREAS ARE CONSIDERED PUBLIC ACCESS AREAS AND SHALL BE ENCLOSED WITH TEMPORARY SECURITY FENCING ACCEPTABLE TO THE CITY. ALL REQUIRED UTILITIES FOR THE CONTRACTOR'S BATCH PLANTS AND STAGING AREA SHALL BE ARRANGED AND PROMPTLY PAID FOR BY THE CONTRACTOR DIRECTLY WITH THE APPROPRIATE UTILITY AGENCY. UTILITY ARRANGEMENTS SHALL BE SUBJECT TO THE APPROVAL OF THE CITY. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DRAINAGE AND EROSION CONTROL REQUIRED IN STAGING AND STOCKPILE AREAS. NO SEPARATE PAYMENT SHALL BE MADE FOR ANY ITEM REQUIRED FOR THE CONTRACTOR TO ENCLOSE, SET UP, AND MAINTAIN HIS OPERATIONAL AREAS. THE CONTRACTOR SHALL RESTORE THE SITE TO ITS ORIGINAL CONDITION, TO THE SATISFACTION OF THE CITY, UPON COMPLETION OF THE CONTRACT WORK. GRASSING IS PART OF THE SITE'S RESTORATION. NO OBJECT IN THE CONTRACTOR'S STAGING AREA OR BATCH PLANT AREA WITHIN 1000' OF THE VORTAC SHALL HAVE A HEIGHT GREATER THAN THE ELEVATION OF THE VORTAC DECK, WHICH IS APPROXIMATELY 40' +/- ABOVE THE GROUND AT THE ELEVATION AT THE VORTAC.
- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH AIRPORT PERSONNEL THROUGH THE CM. CONTRACTOR SHALL COOPERATE WITH EXISTING AND FUTURE CONTRACTORS WORKING IN THE AREA AND AT ALL TIMES WILL COORDINATE HIS EFFORTS TO MAINTAIN NECESSARY CONSTRUCTION ACCESS ROUTES AND TO PREVENT CONTRACT DELAYS.

CONTRACTOR SHALL, AT ALL TIMES, BE RESPONSIVE TO THE OVERALL NEEDS OF THE AIRPORT COMMUNITY AND LEND FULL COOPERATION TO AIRPORT AUTHORITIES WHEN NEEDED TO ASSURE CONTINUING AIRPORT OPERATION. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SUCH THAT THE OVERALL AIRPORT FUNCTION IS MAINTAINED. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS THAT ARE PERTINENT TO THIS WORK. THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO OBTAIN AND PAY ALL COSTS ASSOCIATED WITH THE PERMITS AND LICENSES REQUIRED TO ACCOMPLISH THIS WORK.

22. WORK AROUND EXISTING UNDERGROUND UTILITIES SHALL BE PERFORMED IN A MANNER THAT WILL AVOID DAMAGES TO THE UTILITIES. PRIOR TO COMMENCING WITH WORK, THE CONTRACTOR SHALL ACCURATELY LOCATE OR GET THE APPROPRIATE UTILITY COMPANY TO LOCATE ABOVE AND BELOW GROUND UTILITIES WHICH MAY BE AFFECTED BY THE WORK. THE CONTRACTOR SHALL PROTECT ALL UTILITIES NOT DESIGNATED FOR REMOVAL, RELOCATION, OR REPLACEMENT IN THE COURSE OF THE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE 72 HOURS OF ADVANCED NOTICE TO THE UTILITY OWNER, CITY, AND FAA PRIOR TO BEGINNING CONSTRUCTION IN THE VICINITY OF THE EXISTING UTILITY LINE. FOR EXISTING UTILITY LOCATION ASSISTANCE CALL THE UNDERGROUND UTILITIES PROTECTION CENTER (UPO) AT 1-800-282-7411.

LEGEND

--- CONTRACTOR'S ACCESS ROUTE



CITY OF ATLANTA, GEORGIA

Hartsfield-Jackson  
Atlanta International Airport



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NO. DATE BY REVISION

AIR CARGO BUILDING C

CONSTRUCTION CONTROL  
PLAN AND GENERAL NOTES

WBS NUMBER: D.07.55.009	DRAWN BY: SEI/JCS
FC NUMBER: FC-6006007929-A	DESIGNED BY: SEI/JCS
AE PROJECT NUMBER: HIL-0730621	CHECKED BY: SEI/CWE
	APPROVED BY:
	DATE: 11/25/2014
	SCALE: 1" = 600'
	SHEET NO.:
SEAL	<b>G 2.1.1</b>



# SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	UNIT	ESTIMATED QUANTITY
SP-1-1	Mobilization	LS	LUMP SUM
SP-2-1	Project Contingency	ALLOW.	As Required
SP-4-1	Traffic Control	LS	LUMP SUM
SP-5-1	Utility Coordination and Scheduling	LS	LUMP SUM
SP-5-2	Utility Relocation	ALLOW.	As Required
SP-5-3	Atlanta Gas Light Work	ALLOW.	As Required
SP-6-1	Watering for Dust Control	HR	220.0
SP-7-1	As-Builts	LS	LUMP SUM
SP-8-1	Building	LS	LUMP SUM
P-150-1	Removal of PCC Pavement, Including Base Course, 16" Thickness	SY	270
P-150-2	Removal of PCC Pavement, Including Base Course, 9" Nominal Thickness	SY	1360
P-150-3	Removal of Asphalt Pavement, Including Base Course, 4" Nominal Thickness	SY	9500
P-150-4	Removal of Curb and Gutter	LF	4640
P-150-5	Removal of Sidewalk Pavement	SY	510
P-150-6	Removal of Sanitary and Storm Sewer Pipes, 16" Diameter or Greater	LF	1990
P-150-7	Drainage and Sanitary Sewer Structure Removal	EA	14
P-150-8	Fence Removal	LF	1960
P-150-9	Milling of Bituminous Pavement, 1.5 inch Depth	SY	1450
P-152-1	In Place Embankment	CY	5000
P-152-2	Backfill	CY	10000
P-152-3	Preparation of Subgrade	SY	54260
P-152-4	Trench Rock Excavation	CY	10
P-152-5	Rock Excavation	CY	10
P-156-1	Sediment/Erosion Control	LS	LUMP SUM
P-156-2	Silt Fence	LF	3820
P-156-3	Inlet Sediment Trap	EA	30
P-156-4	Inlet Sediment Filter with Bags	EA	24
P-209-1	Crushed Aggregate Base Course	CY	6480
P-402-1	Recyc Asph Conc 12.5 MM Superpave, Gp. 1 or 2, Incl Bit Matl & H	TN	660
P-402-2	Recyc Asph Conc 25 MM Superpave, Gp. 1 or 2, Incl Bit Matl & H Lime	TN	930
P-501-1	Non-reinforced Portland Cement Concrete Airfield Pavement, 16" Thick	SY	130
P-501-2	Reinforced Portland Cement Concrete Airfield Pavement, 16" Thick	SY	710
P-501-3	Non-reinforced Portland Cement Concrete Pavement, 10" Thick	SY	14490
P-501-4	Reinforced Portland Cement Concrete Pavement, 10" Thick	SY	3500
P-501-5	Non-reinforced Portland Cement Concrete Pavement, Variable Thickness 10" to 12.5" Thick	SY	400
P-501-6	Reinforced Portland Cement Concrete Pavement, Variable Thickness 10" to 12.5" Thick	SY	520
P-501-7	Low Slump, Low Strength concrete	CY	290
P-504-1	Non-reinforced Portland Cement Concrete Pavement, High Early Strength, 10" Thick	SY	500
P-504-2	Reinforced Portland Cement Concrete Pavement, High Early Strength, 10" Thick	SY	50
P-602-1	Bituminous Prime Coat	GAL	4140
P-603-1	Bituminous Tack Coat	GAL	1240
P-605-1	Cold Applied Sealant, Contraction, Construction and Longitudinal Joints	LF	17500
P-605-2	Cold Applied Sealant, Expansion Joints	LF	640
P-605-3	Cold Applied Sealant, Asphalt-Concrete Joint Interface	LF	100
P-615-1	Concrete Curb and Gutter	LF	12630
P-615-2	Concrete Ditch Paving	CY	20
P-615-3	Concrete Sidewalk	SY	480
P-615-4	Concrete Island Paving	SY	360
P-621-1	Pavement Striping and Marking Removal	SF	1970
P-621-2	Pavement Striping and Marking	SF	9100
D-701-1	Storm Sewer, RCP, 18" Diameter Class V	LF	250
D-701-2	Storm Sewer, RCP, 24" Diameter Class V	LF	1060
D-701-3	Storm Sewer, DIP, 6" Diameter	LF	230
D-701-4	Pipe Bedding, Type "C"	LF	1480
D-701-5	Trench and Excavation Protection	LS	LUMP SUM
D-701-6	Roof Drain Leader Cleanout	EA	2
D-705-1	6" Perforated Underdrain Pipe	LF	1110
D-705-2	Coarse Aggregate Underdrain Backfill, #89 Stone	CY	100
D-705-3	Underdrain Cleanout	EA	6
D-750-1	6" DIP Sanitary Sewer Pipe	LF	80
D-750-2	Sanitary Sewer Lateral Cleanout	EA	3
D-750-3	Raise Sanitary Sewer Manhole to grade	EA	2
D-750-4	CCTV Pipe Inspection	LF	600
D-751-1	GDOT 1019AP - Type E Hood and Grate	EA	1
D-751-2	GDOT Modified 1019AP - Type E Double Hood and Grate (9031L Sheet 2)	EA	4
D-751-3	GDOT 1019AP - Type C Drop Inlet	EA	6
D-751-4	GDOT 1034DP - Double Wing Catch Basin	EA	1
D-751-5	Standard Drainage Manhole - GDOT 1040	EA	1
D-751-6	GDOT 1001B - Headwall	EA	2
D-751-7	Replace ATL Type A w/ GDOT Type C Drop Inlet to grade	EA	6
D-751-8	Raise Storm Manhole to grade	EA	4
D-751-9	Miscellaneous Concrete	CY	50
F-162-1	Temporary SIDA Fence and Removal	LF	770
F-162-2	Permanent SIDA Fence	LF	30
F-162-3	16-ft Wide Permanent Swing Gate	EA	1
F-165-1	Signs, Type 1 Material, Reflective Sheeting Type 3	SF	50
F-165-2	Signs, Type 1 Material, Reflective Sheeting Type 9	SF	50
F-165-3	Galvanized Steel Posts, Type 7	LF	380
T-901-1	Seeding	SY	21720
T-901-2	Reseeding (Permanent Seed)	SY	19150
T-901-3	Watering, for Seeded Areas	HR	220
T-904-1	Sodding	SY	2580
T-908-1	Asphalt Spray Mulching	SY	58000
L-116-1	3" Water Line Directional Drill	LF	40
U-150-1	3-inch Class 51 Ductile Iron Pipe, Restrained Joint	LF	170
U-150-2	6-inch Class 51 Ductile Iron Pipe, Restrained Joint	LF	120
U-150-3	8-inch Class 51 Ductile Iron Pipe, Restrained Joint	LF	240
U-150-4	12-inch Class 51 Ductile Iron Pipe, Restrained Joint	LF	100
U-150-5	Fire Hydrant Assembly	EA	5
U-150-6	8-inch Post Indicator Valve	EA	1
U-150-7	3" Water Meter including meter box	EA	1



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NO.	DATE	BY	REVISION
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AIR CARGO BUILDING C

## SUMMARY OF QUANTITIES

WBS NUMBER: D.07.55.009	DRAWN BY: SEI/JCS
FC NUMBER: FC-60060007929-A	DESIGNED BY: SEI/JCS
A/E PROJECT NUMBER: HII-0730621	CHECKED BY: SEI/CWE
	APPROVED BY:
	DATE: 11/25/2014
	SCALE:
	SHEET NO:
SEAL	<b>G 3.1.1</b>



CODE ANALYSIS

Project Name: Cargo Building C - 2013  
Project Address: H-JAIA Airport  
Project City/State: Atlanta, GA  
Project Number: HII - 07306-21

I. Applicable Codes and Ordinances [as of January 1, 2014, GA DCA]

<b>Building</b>	2012 International Building Code with Georgia Amendments
<b>Life Safety</b>	2012 International Fire Code with Georgia Amendments 2012 National Fire Protection Association (NFPA) 101 Life Safety Code
<b>Plumbing</b>	2012 International Plumbing Code with Georgia Amendments
<b>Mechanical</b>	2012 International Mechanical Code with Georgia Amendments
<b>Gas</b>	2012 International Fuel Gas Code with Georgia Amendments
<b>Electrical</b>	2011 National Electrical Code with no Georgia Amendments
<b>Energy</b>	2009 International Energy Conservation Code with 2012 Georgia supplements and Amendments
<b>Accessibility</b>	2010 ADA Standards for Accessible Design.

II. Occupancy Classification

[NFPA 101 shall establish minimum requirements for occupancy classifications, overruling IBC (Ga. 120-3-3.01 (h))]

Life Safety:  
NFPA: Mixed, Separated: Business and Storage, Ordinary Hazard [6.1.14; Chapter 38 and Chapter 42]  
IBC: Mixed, Separated: Business [B] and Storage [S-2] (Section 303), [For construction type]

III. Occupant Loads: [NFPA Table 7.3.1.2, IBC Table 1004.1.1--more stringent code applies]

Function of Space	Square Feet	Area/Occupant	No. of Occ.
Office	21,035 GSF	100 GSF	210
Ramp Operations 1st	1,149 GSF	100 GSF	11
Ramp Operations 2nd	1,260 GSF	100 GSF	13
Entry 1st	3,362 GSF	100 GSF	34
Entry 2nd	2,695 GSF	100 GSF	27
Warehouse	100,930 GSF	500 GSF	202
<b>Total Floor Area:</b>	<b>130,431 GSF</b>		<b>Total Occupancy: 497</b>

IV. Construction:

[Refer to IBC Section 602 Construction Classification and Table 601 Fire Resistance Ratings for Building Elements. IBC shall establish minimum requirements for construction type, overruling NFPA (Ga. 120-3-3.01 (n))]

Type: IBC: Type II-B, unprotected, sprinklered

Height & Area:

- Building Height: 48'-10"
- Max. Allowable Ht: Storage S-2 55'-0" [IBC Table 503]  
Business B 55'-0"  
(No Height modifications needed)

Number of Stories: 2

- Max. Allowable Stories
- 3 stories for type Storage S-2: [IBC Table 503]
- 3 stories for Business B  
(No Story Increase needed)

Floor Areas:

- First Floor, Storage [S-2]: 100,930 GSF
- First Floor, Business [B]: 4,511 GSF
- Second Floor, Business [B]: 24,990 GSF

- Max. Allowable Floor Area
  - S-2 = 26,000 [IBC Table 503]
    - Area Modification:  
Frontage Increase:  $If = [F/P - 0.25] W/30$   
 $If = [1468/1498 - 0.25] 54/30$   
 $If = 1.3$   
Area Increase:  $A = [26,000 + (26,000 * 1.3) + (26,000 * 2)]$   
 $A = 26,000 + 33,800 + 52,000$   
 $A = 113,800$
    - B = 23,000 [IBC Table 503]
      - Area Modification:  
Area Increase:  $A = [23,000 + (23,000 * 1.3) + (23,000 * 2)]$   
 $A = 23,000 + 29,900 + 46,000$   
 $A = 98,900$

Building meets current area and height limitations.

V. Fire Resistance Ratings

[Per Ga IBC Amendments: Table 601 and 602 of IBC; NFPA to be used as a supplement for areas not addressed by IBC]

	IBC Table 601 u.n.o.
Structural Frame	0 **
Exterior Bearing Walls:	0
Interior Bearing Walls:	0
Exterior Non-Bearing Walls & Partitions:	0
Interior Non-Bearing wall & Partitions:	0
Floor/Ceiling Construction:	0
Roof/Ceiling Construction:	0

\*\*Table 602: Fire-Resistance Rating requirements for Exterior Walls Based on Fire Separation Distance

[For Type IIB construction, Occupancy B and S-2]  
 $10' \leq X \leq 30'$  0 hr  
 $X \geq 30'$  0 hr

Occupancy Separation Requirements:

[Per Ga. IBC Amendments; IBC Table 508.4 and NFPA 6.1.14.]

Occupancies	Separation Req'd
IBC: Storage S-2 and Business	1 Hrs.
NFPA: Storage [Ordinary Hazard] and Business	NR

Cargo Building C - 2013  
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Exit Access:

[Per Ga IBC Amendments: NFPA as Basis; IBC to be used as a supplement for areas not addressed by NFPA.]

- NFPA 7.1.3 - Corridors used as exit access serving an area with an occupant load > 30 shall be separated from other parts of the building by walls having not less than 1 hour rating in accordance with 8.3.
  - Exception No. 2: Shall not apply where otherwise provided in Chapters 11 through 43.
  - 38.3.6.1, Except, No 3: No separation required for exit access corridors in sprinklered Business Occupancies.
- Doors to exit access corridors 20 min/ 1 hr  
[where corridor protection is required]

Exit Enclosures:

[Per Ga IBC Amendments: NFPA as Basis; IBC to be used as a supplement for areas not addressed by NFPA.]

- All inside stairs serving as an exit shall be enclosed according to 7.1.3.2; all other inside stairs shall be protected in accordance with 8.2.5.
  - Exit Separation:
    - 3 or less stories [NFPA 7.1.3.2.1, a] 1 hour
    - 4 or more stories [NFPA 7.1.3.2.1, b] 2 hours
  - Exception For Ramp Ops Area:
    - Business, [NFPA 38.2.4.2, Exc. No. 5] allows an unprotected stair to be the single exit in a two-story, single tenant, sprinklered building where the total travel distance to the outside is <100'-0".
  - Exception For Customer Service:
    - Where permitted by Chapters 11 - 43, unenclosed vertical openings not concealed within the building construction shall be permitted as follows [NFPA 8.6.5.1]
      - (1) Opening connects no more than 2 adjacent stories
      - (2) Opening separated from unprotected vertical openings serving other floors
      - (3) Openings shall be separated from other fire or smoke compartments
      - (4) Opening shall be separated from corridors
      - (5) Opening shall not serve as a required means of egress

Vertical Openings:

- Shaft Enclosure - 4 stories or more [NFPA 8.6.5] 2 hours
- Other Shaft Enclosures [NFPA 8.6.5] 1 hour
  - Vertical Openings that do not extend to the top or bottom shall be enclosed at the lowest or highest level in accordance w/8.6.5. [NFPA 8.6.4.1]
  - Any vertical opening shall be enclosed or protected in accordance with NFPA 8.6.5.
- Elevator Lobbies not required per Ga Amendment 7.13.14.2, Exception 4. Buildings three stories or less with vertical openings protected in accordance with the applicable occupancy chapter.

Opening Protectives: [NFPA 2012 8.3.4.2.3]

- 2-hr fire barrier 1 1/2 hr
- 1-hr vertical shaft & exit enclosure walls 1 hr
- Other 1-hr walls 3/4 hr  
[unless a lesser fire protection rating is specified in Chapt. 11 - 43]
- 1/2-hr fire barrier 1/3-hr

VI. Exiting Requirements

[NFPA shall establish minimum requirements for means of egress and all components thereof, including all separate categories below, overruling IBC (Ga. 120-3-3.01 (a))]

Minimum Number of Exits:

- At each story [NFPA 7.4.1.1] 2 exits
- For Business, [NFPA 38.2.4.2, Exc. No. 5]  
A single exit shall be permitted for a maximum two-story, single-tenant space protected throughout by an approved, supervised automatic sprinkler system ... where the total travel to the outside does not exceed 100 ft.

Arrangement of Means of Egress

- In buildings protected by an approved sprinkler system, the minimum separation distance between two exits shall be not less than 1/3 the length of the maximum overall diagonal dimension of the building or area to be served. [NFPA 2012, 7.5.1.3.3] - diagonal distance = 560'-0", separation distance > 187'-0", actual separation distance = 188'-0"
- Exit access from rooms or spaces shall be permitted to be through adjoining or intervening rooms, provided such adjoining rooms are accessory to the area served. Foyers, lobbies and reception rooms constructed as required for corridors shall not be construed as intervening rooms. [NFPA 2012, 7.5.1.6]

Maximum distances [NFPA 2012, Table A.7.6.1:

Storage, Ordinary Hazard	Allowable:
Limit Type:	
Common path of travel	100 ft sprinklered
Dead end corridor	100 ft sprinklered
Travel distance limit	400 ft sprinklered
Business	
Limit Type:	Allowable:
Common path of travel	75 ft sprinklered
Dead end corridor	50 ft sprinklered
Travel distance limit	300 ft sprinklered

Egress Capacity [NFPA 2012 7.3.3] and Minimum Widths [NFPA 2012 7.3.4]: [use most restrictive occupancy]

Required Exit Widths: [NFPA 2012 Table 7.3.3.1]

- Stairways: 3' per person
- Level components & ramps: 2' per person
- Min. Means of Egress Width: 44" min. [NFPA 38.2.3.2]
- Door width: 32" [NFPA 7.2.1.2.4]

Cargo Building C - 2013  
HII - 07306-21

Means of Egress Features:

Egress Stair: [NFPA Table 7.2.2.2.1.1(a)]  
Stair width: 44"  
Maximum riser height: 7"  
Minimum riser height: 4"  
Minimum tread depth: 11"  
Minimum headroom: 6'-6"  
Maximum height between landings: 12'-0"  
Landings [NFPA 7.2.2.3.2]

Min. width to match width of stair, min. dimension in direction of exit travel to match width of stair, or 4'-0" for stairs with straight runs  
1 1/2" projection, or 30" from vertical max.

Tread nosing [NFPA 7.2.2.3.3]

Ramps: [NFPA 7.2.5.2(a)]

Ramp width: 44"  
Maximum Slope: 1" in 12"  
Maximum cross slope: 1" in 48"  
Maximum rise for single run: 30"  
Ramp landing depth [NFPA 7.2.5.3.2]: 60" min.  
Ramp landing width: same as width of ramp

Doors:

- Doors shall swing in the direction of egress travel for occupant load of 50 or more. [NFPA 7.2.1.4.2]
- Doors shall swing in the direction of egress travel when used in an exit enclosure. [NFPA 7.2.1.4.2]
- During its swing, any door in a means of egress shall leave not less than 1/4 the required egress width and shall not project more than 7" into the required egress width when fully open. [NFPA 7.2.1.4.3]
- Doors shall not open directly into a stair without a landing. [NFPA 7.2.1.4.3]

Egress Pathway:

- Minimum ceiling height in means of egress shall be 7'-6", with projections down to 6'-3" allowable for up to 1/3 of the ceiling area. [NFPA 7.1.5]
- Guards shall be provided within 30" of all portions of required egress width of stairs. Ramps and stairs shall have handrails on both sides. [NFPA 7.2.2.4.1.2]
- The exit discharge shall be arranged and marked to make clear the direction of egress to a public way. Stairs shall be arranged so as to make clear the direction of egress to a public way. [NFPA 7.7.3]

Area of Refuge:

- Stories of buildings are permitted to act as areas of refuge in buildings protected throughout by an approved sprinkler system. [NFPA 7.2.12.1, Except: 1 and NFPA 38.2.2.12]

VII. Fire Extinguishers [NFPA 10 Table 3-2.1]

For ordinary hazard occupancy, extinguishers are to be within 75' travel distance from any point in the building. There is an exception to this in storage areas where forklift or cart operators are the primary occupants. Vehicle mounted extinguishers approved by the AHJ will allow the elimination of fire extinguishers in the middle of the warehouse. (See NFPA 1: Fire Code Handbook, 13.6.2 for details).

VIII. Plumbing Fixture Counts

(Up to 50% of water closets can be substituted as urinals [IBC 419.2])

	Req'd	Provided
Storage: 202 occupants/2 = 101		
Male WC/Urinals 1 per 100 occupants	1	1
Female WC 1 per 100 occupants	1	1
Male Lavatories 1 per 100 occupants	1	1
Female Lavatories 1 per 100 occupants	1	1

- Business: 295 occupants/2 = 147
  - Male WC/Urinals 1 per 25 for the first 50 occ. 2 2
  - 1 per 50 thereafter 2 3
  - Female WC 1 per 25 for the first 50 occ. 2 2
  - 1 per 50 thereafter 2 4
  - Male Lavatories 1 per 40 for the first 80 occ. 2 2
  - 1 per 80 thereafter 1 3
  - Female Lavatories 1 per 40 for the first 80 occ. 2 2
  - 1 per 80 thereafter 1 4
- Drinking fountains:  
Storage: 1 per 1,000 occupants = 1 required  
Business: 1 per 100 = 3 required

IX. Energy Conservation [IECC Table 802.2]

For commercial building type [IECC 101.3.2]

I. Energy Code Analysis: Clayton County - Climate Zone 3A

II. Building Envelope Requirements [Table 502.1.2]

- Roof, insulation entirely above deck R-20, ci [min]
- Mass Walls above grade R-7.5, ci [min]
- Metal Framed Walls above grade R-13 + R3.8, ci [min]
- Walls below grade No Requirement
- Unheated slab No Requirement
- Floors over outdoor air/uncond space R-19
- Roll-up Doors U-1.45
- Swinging Doors U-0.70

III. Fenestration [Table 502.3]

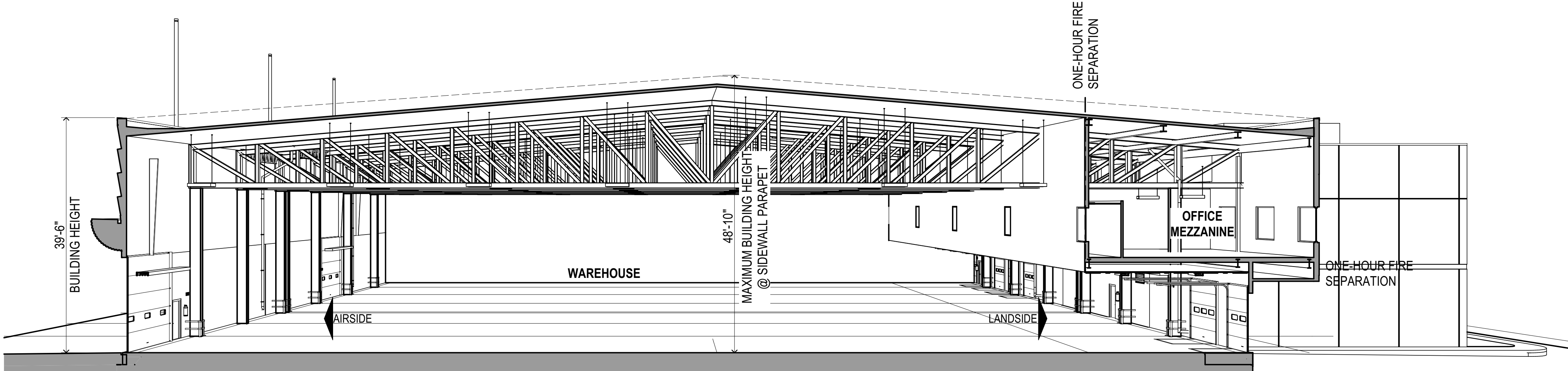
- Metal Curtainwall/storefront Framing U-0.60 max
- Metal Entrance Door Framing U-0.90 max
- SHGC: PF < 0.25 0.25

IV. Miscellaneous

- 502.4.6 Cargo Doors and loading dock doors shall be equipped with weather seals to restrict infiltration when vehicles are parked in the doorway.
- 502.4.7 Vestibules: Not required for doors that open directly from a space less than 3,000 sq ft in area [exception 4].

SECURITY PLAN

A SECURITY PLAN MUST BE SUBMITTED TO AIRPORT SECURITY FOR REVIEW BEFORE CONSTRUCTION COMMENCES. THE PLAN MUST ADDRESS, AT A MINIMUM, THE CONTRACTOR'S UNDERSTANDING OF SECURING THE WORKSITE, KNOWLEDGE OF HAUL ROUTES, IF APPLICABLE AND PROPER USE OF ALL SIDA BADGES. ALSO, THE TEMPORARY SIDA FENCE MUST BE APPROVED BY DOA SECURITY BEFORE CONSTRUCTION COMMENCES.



1  
G3.2.1

BUILDING SECTION

NOT TO SCALE



CITY OF ATLANTA, GEORGIA

Hartsfield-Jackson  
Atlanta International Airport



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NO. DATE BY REVISION

AIR CARGO BUILDING C

CODE ANALYSIS & LIFE  
SAFETY INFORMATION

WBS NUMBER:

D 07.55.009

FC NUMBER:

FC-6006007929-A

AE PROJECT NUMBER:

HII-0730621

DRAWN BY:

SK

DESIGNED BY:

JWS

CHECKED BY:

TR

APPROVED BY:

WLP

DATE:

11/25/2014

SCALE:

N/A

SHEET NO.:

G3.2.1

SEAL





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Hartsfield-Jackson  
Atlanta International Airport

**HSST**

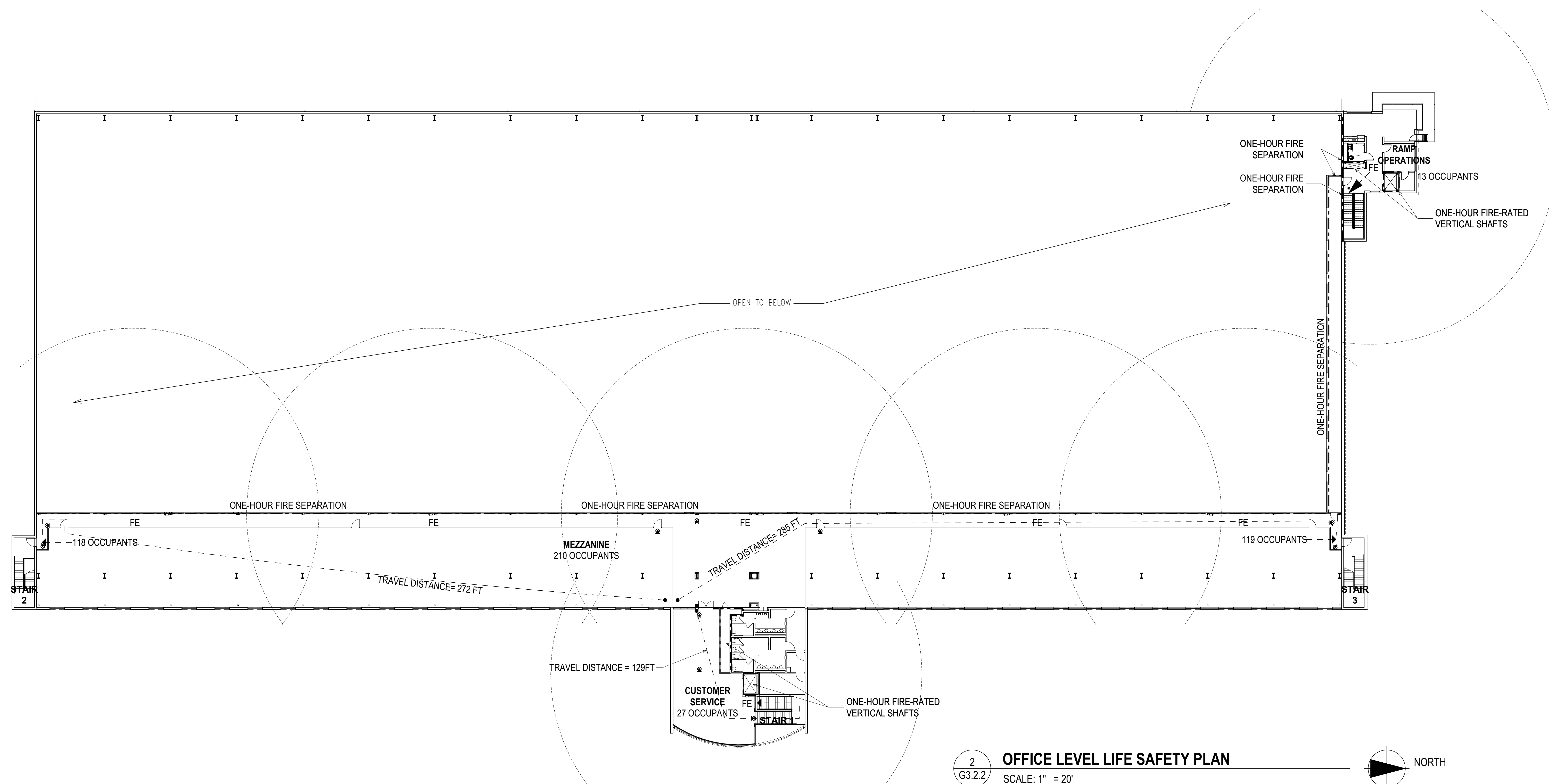
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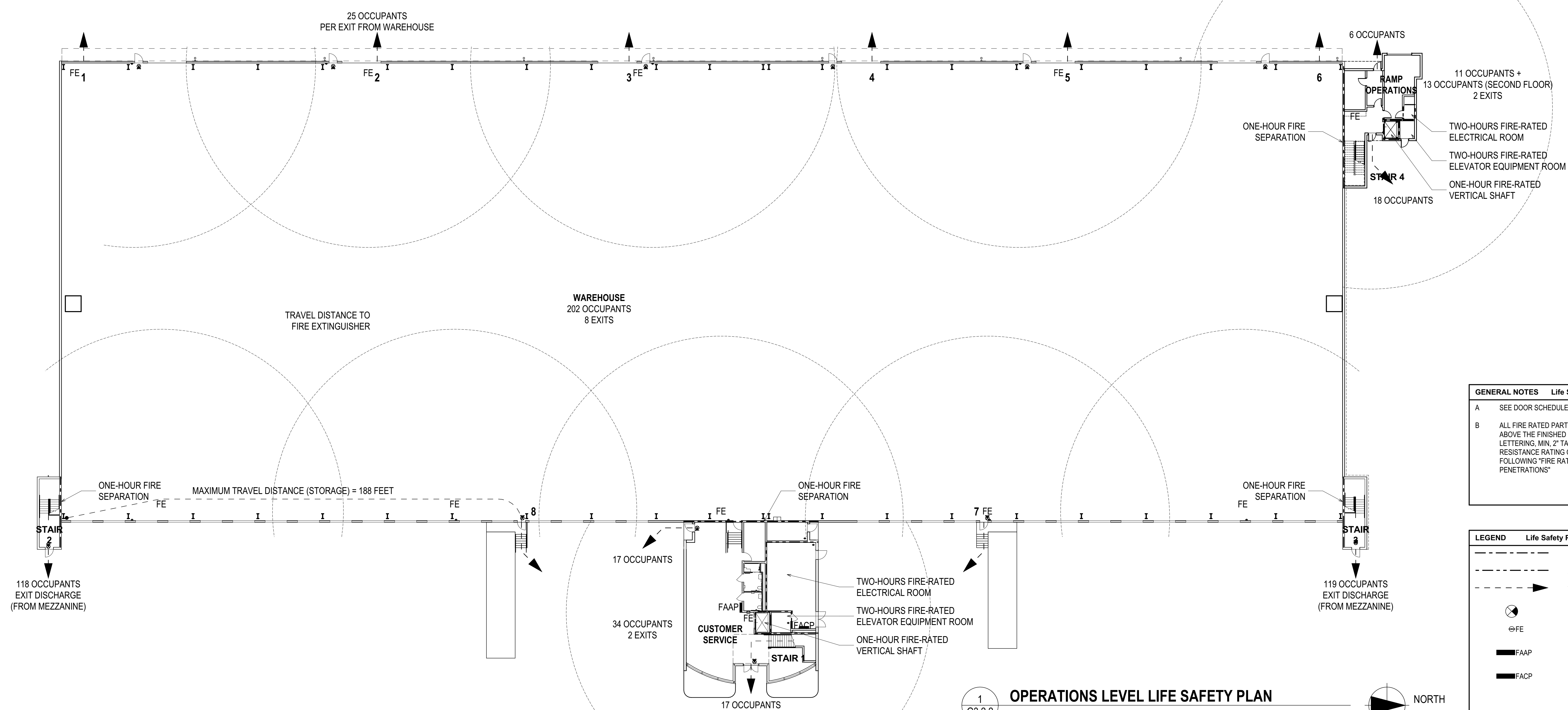
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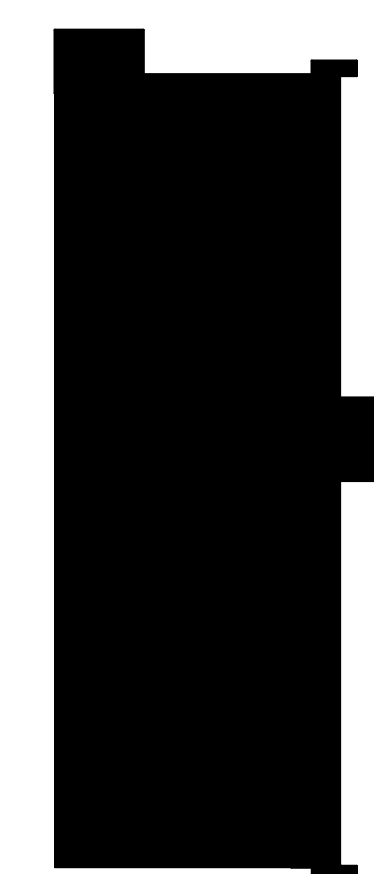
AIR CARGO BUILDING C, 100% CONSTRUCTION DOCUMENTS ISSUED FOR BID, NOVEMBER 25, 2014



**2 OFFICE LEVEL LIFE SAFETY PLAN**  
SCALE: 1" = 20'



**1 OPERATIONS LEVEL LIFE SAFETY PLAN**  
SCALE: 1" = 20'



**KEY MAP**

**GENERAL NOTES Life Safety Plans**

A SEE DOOR SCHEDULE FOR RATED OPENINGS

B ALL FIRE RATED PARTITIONS SHALL BE MARKED ABOVE THE FINISHED CEILING WITH RED PAINTED LETTERING, MIN. 2" TALL, INDICATING THE RESISTANCE RATING OF THE PARTITION AND THE FOLLOWING "FIRE RATED PARTITION. SEAL ALL PENETRATIONS"

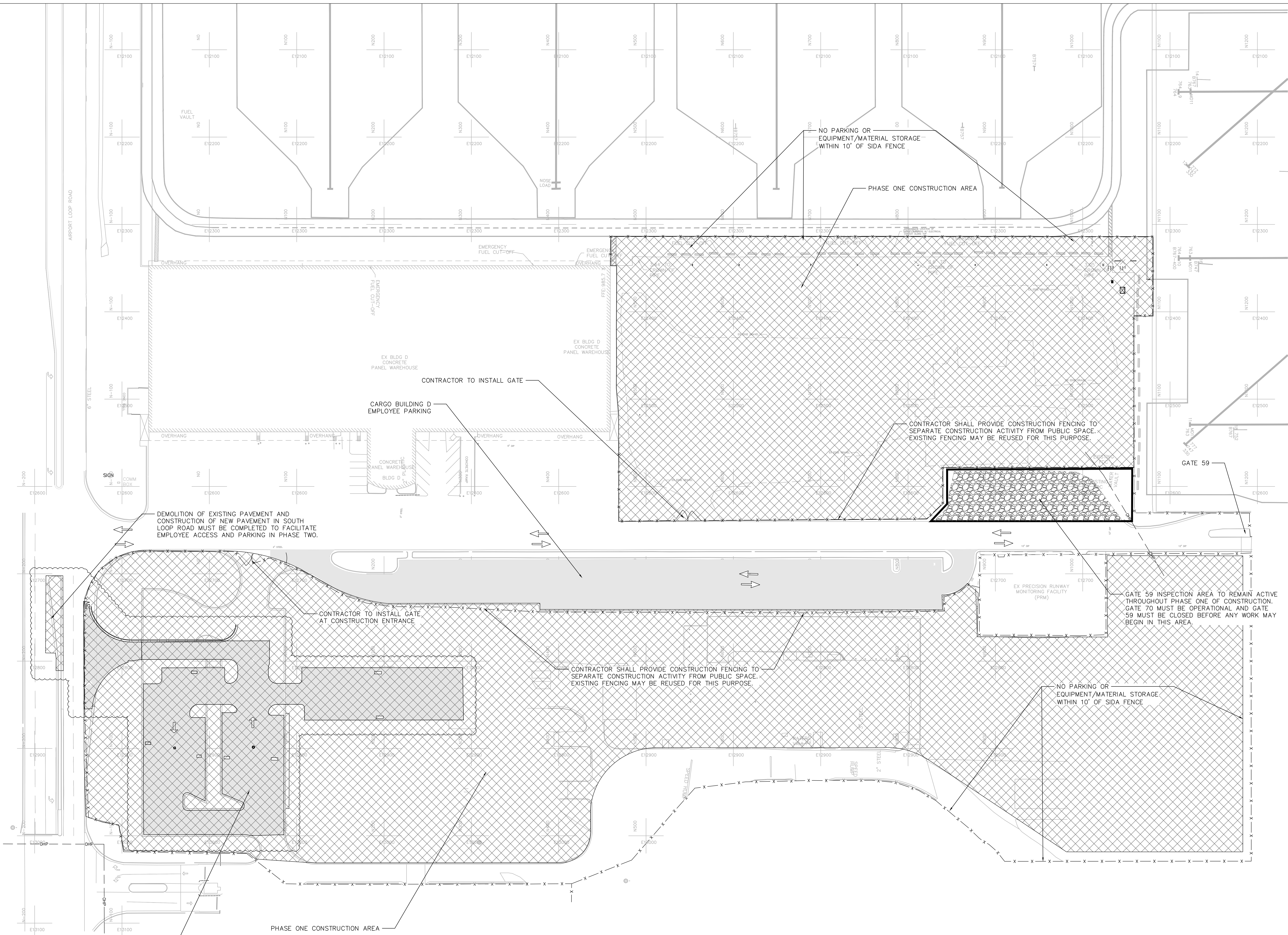
**LEGEND Life Safety Plans**

1-HOUR FIRE-RATED WALL  
2-HOUR FIRE-RATED WALL  
TRAVEL DISTANCE  
EMERGENCY EXIT SIGN LOCATION  
FIRE EXTINGUISHER  
FIRE ALARM ANNUNCIATOR PANEL LOCATION  
FIRE ALARM CONTROL PANEL LOCATION

NO.	DATE	BY	REVISION
AIR CARGO BUILDING C			
LIFE SAFETY PLANS			
WBS NUMBER:	D 07.55.009	DRAWN BY:	SK
FC NUMBER:	FC-6006007929-A	DESIGNED BY:	JWS
AE PROJECT NUMBER:	HI-0730621	CHECKED BY:	TR
		APPROVED BY:	WLP
		DATE:	11/25/2014
		SCALE:	1" = 20'
		SHEET NO.:	G3.2.2

NOT RELEASED FOR CONSTRUCTION





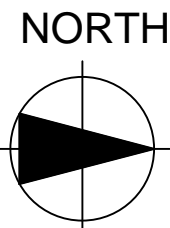
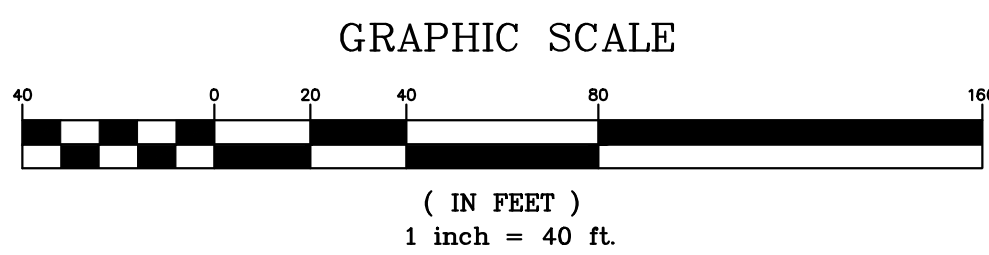
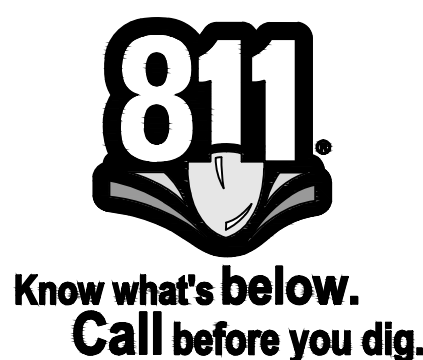
CONSTRUCTION IN THIS AREA MUST BE COMPLETED BEFORE MOVING ON TO PHASE 2 OF CONSTRUCTION. CONTRACTOR TO ENSURE 100 SPACES PROVIDED.

**NOTES:**

1. CONTRACTOR MUST MAINTAIN TRUCK TRAFFIC AND ALL OTHER TRAFFIC THROUGH ALL PHASES OF CONSTRUCTION.
2. THE CONTRACTOR'S SECURITY AND TRAFFIC CONTROL PLAN MUST BE APPROVED PRIOR TO STARTING CONSTRUCTION. SECURITY PLAN APPROVAL GENERALLY TAKES 40 DAYS FOR APPROVAL.
3. THE PUBLIC MUST BE SEPARATED FROM CONSTRUCTION BY AN APPROVED COMBINATION OF BARRICADES, BARRIERS AND/OR FENCES AS APPROPRIATE.

**SEQUENCE OF CONSTRUCTION & TRAFFIC CONTROL**

- PHASE 1 - SOUTH AIR CARGO BUILDING C AND TRUCK STAGING AND EMPLOYEE PARKING AREA
1. PLACE ALL TEMPORARY TRAFFIC CONTROL DEVICES BEFORE CONSTRUCTION ACTIVITIES BEGIN
  2. GATE 59 WILL STILL BE IN OPERATION THEREFORE TRAFFIC TO GATE 59 FROM SOUTH LOOP MUST BE MAINTAINED
  3. GATE 59 ESCORT INSPECTION AREA TO BE MAINTAINED
  4. CONSTRUCTION TO OCCUR WITHIN THE HATCHED AREA
  5. CARGO BUILDING D EMPLOYEES SHOULD CONTINUE TO PARK IN THE EXISTING PARKING AREA



CITY OF ATLANTA, GEORGIA

Hartsfield-Jackson  
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HERRY INTERNATIONAL, INC.  
999 PEACHTREE STREET, NE  
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PHONE: 404.476.9190  
FAX: 404.461.2017

MATROX 3D  
44 BROAD STREET  
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PHONE: 404.522.3801  
FAX: 404.522.3823

STEVENS & WILKINSON, INC.  
150 PEACHTREE STREET NW, SUITE 2000  
ATLANTA, GA 30303  
PHONE: 404.522.8888  
FAX: 404.521.6204

SOUTHEASTERN ENGINEERING, INC. (SEI)  
2401 SANDY PLAINS ROAD  
MARIETTA, GA 30066  
PHONE: 770.321.3938  
FAX: 770.321.3935

NO. DATE BY REVISION

AIR CARGO BUILDING C

PHASE 1

CONSTRUCTION PHASING PLAN

WBS NUMBER:

D.07.55.009

DRAWN BY:

SEI/JCS

FC NUMBER:

FC-6006007928-A

DESIGNED BY:

SEI/JCS

A/E PROJECT NUMBER:

HII-0730621

CHECKED BY:

SEI/CWE

APPROVED BY:

DATE:

11/25/2014

SCALE:

1" = 40'

SHEET NO:

G 4.1.1

SEA

NOT ISSUED FOR CONSTRUCTION

AIR CARGO BUILDING C - 100% CONSTRUCTION DOCUMENTS ISSUED FOR BID, NOVEMBER 25, 2014





CITY OF ATLANTA, GEORGIA

Hartsfield-Jackson  
Atlanta International Airport



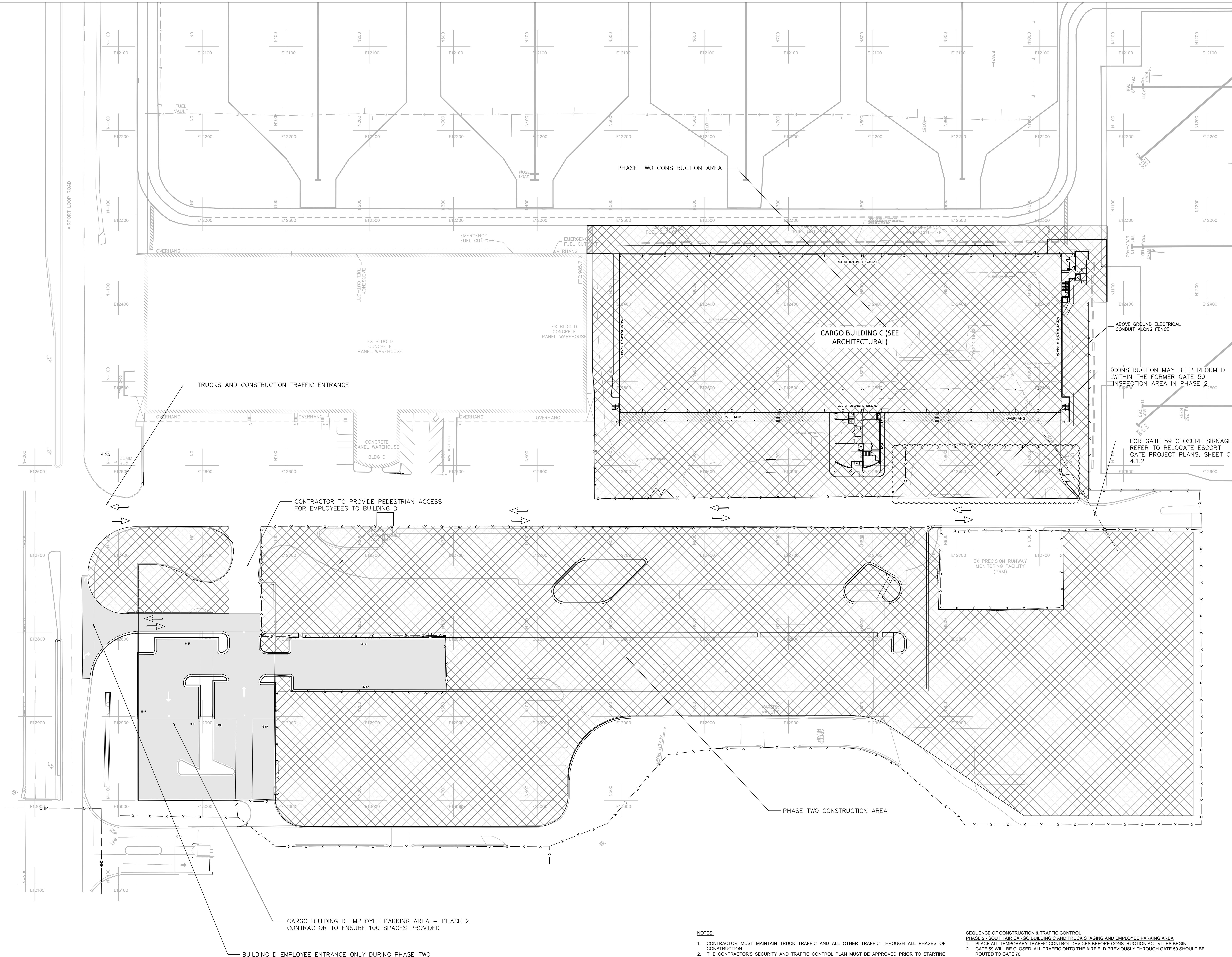
HERRY INTERNATIONAL, INC.  
909 PEACHTREE STREET, NE  
ATLANTA, GA 30309  
PHONE: 404.476.9190  
FAX: 404.461.2017

MATROX 3D  
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PHONE: 770.321.3938  
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AIR CARGO BUILDING C - 100% CONSTRUCTION DOCUMENTS ISSUED FOR BID, NOVEMBER 25, 2014

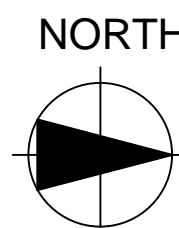
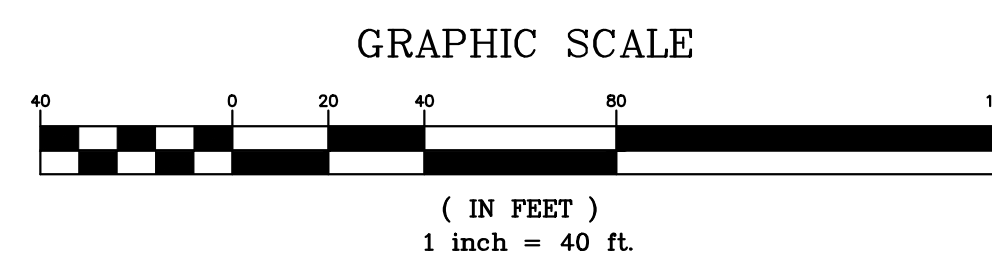


NOTES:

1. CONTRACTOR MUST MAINTAIN TRUCK TRAFFIC AND ALL OTHER TRAFFIC THROUGH ALL PHASES OF CONSTRUCTION.
2. THE CONTRACTOR'S SECURITY AND TRAFFIC CONTROL PLAN MUST BE APPROVED PRIOR TO STARTING CONSTRUCTION. SECURITY PLAN APPROVAL GENERALLY TAKES 40 DAYS FOR APPROVAL.
3. THE PUBLIC MUST BE SEPARATED FROM CONSTRUCTION BY AN APPROVED COMBINATION OF BARRICADES, BARRIERS AND/OR FENCES AS APPROPRIATE.

SEQUENCE OF CONSTRUCTION & TRAFFIC CONTROL

- PHASE 2 - SOUTH AIR CARGO BUILDING C AND TRUCK STAGING AND EMPLOYEE PARKING AREA
1. PLACE ALL TEMPORARY TRAFFIC CONTROL DEVICES BEFORE CONSTRUCTION ACTIVITIES BEGIN.
  2. GATE 59 WILL BE CLOSED. ALL TRAFFIC ONTO THE AIRFIELD PREVIOUSLY THROUGH GATE 59 SHOULD BE ROUTED TO GATE 70.
  3. CONSTRUCTION TO OCCUR WITHIN THE HATCHED AREA.
  4. CARGO BUILDING D EMPLOYEES ARE TO UTILIZE THE EASTERN MOST ENTRANCE TO ACCESS THE PARKING AREA INDICATED BY.
  5. BUILDING D TRUCK TRAFFIC AND ALL OTHER CONSTRUCTION TRAFFIC SHOULD UTILIZE THE EXISTING WESTERN MOST ENTRANCE.



NO. DATE BY REVISION

AIR CARGO BUILDING C

PHASE 2

CONSTRUCTION PHASING PLAN

WBS NUMBER:  
D.07.55.009

DRAWN BY:  
SEI/JCS

FC NUMBER:  
FC-6006007928-A

DESIGNED BY:  
SEI/JCS

A/E PROJECT NUMBER:  
HII-0730621

CHECKED BY:  
SEI/CWE

APPROVED BY:

DATE:  
11/25/2014

SCALE:  
1" = 40'

SHEET NO:

G 4.1.2

SEA

NOT ISSUED FOR CONSTRUCTION





CITY OF ATLANTA, GEORGIA

Hartsfield-Jackson  
Atlanta International Airport



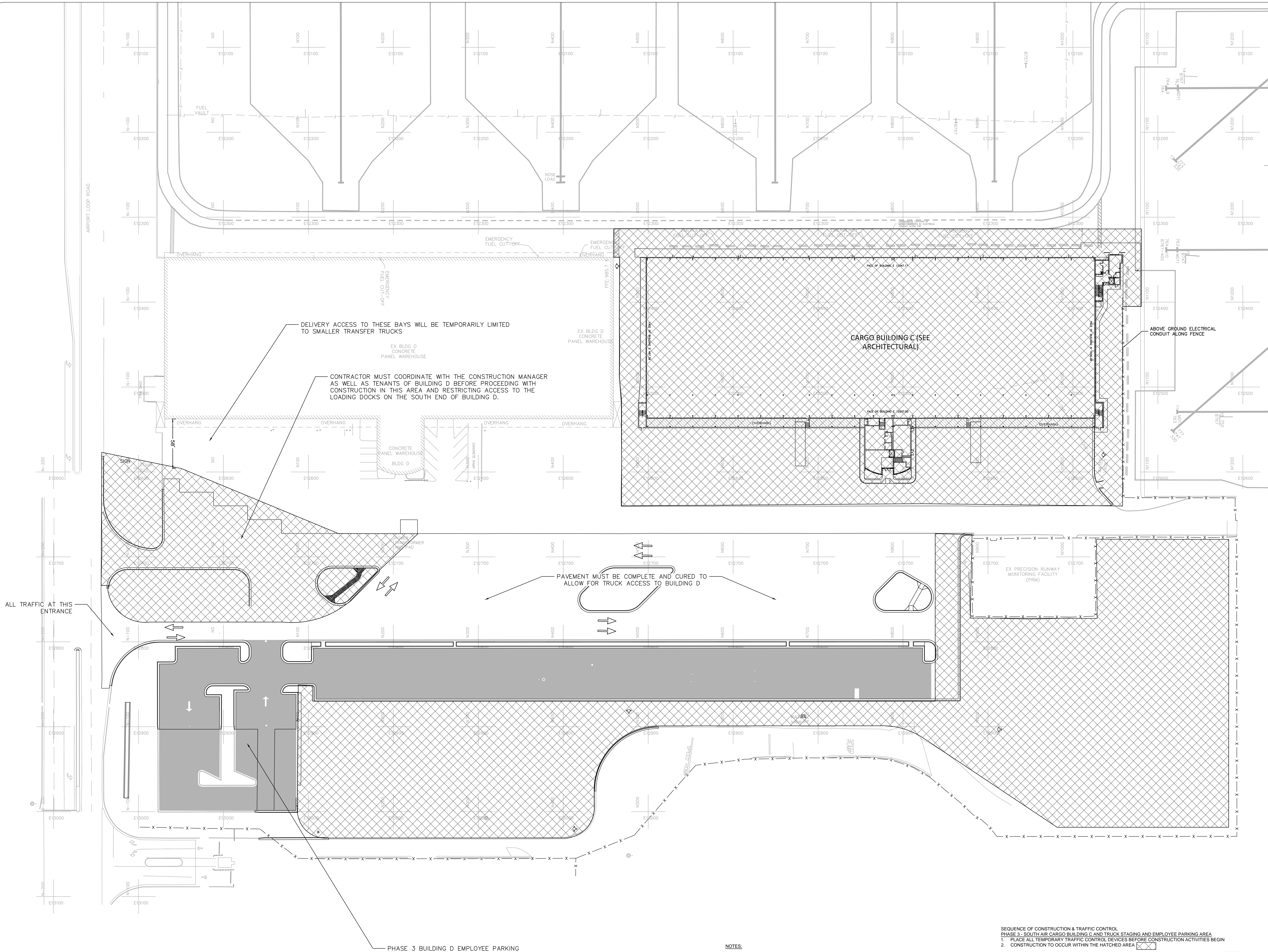
HERRY INTERNATIONAL, INC.  
909 PEACHTREE STREET, NE  
ATLANTA, GA 30309  
PHONE: 404.476.9190  
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FAX: 770.321.3935

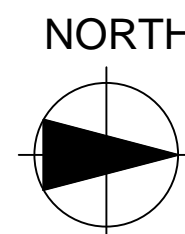
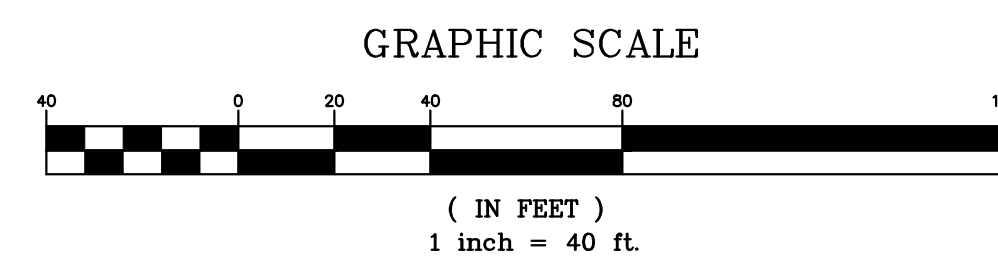
AIR CARGO BUILDING C - 100% CONSTRUCTION DOCUMENTS ISSUED FOR BID, NOVEMBER 25, 2014



NOTES:

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2. THE CONTRACTOR'S SECURITY AND TRAFFIC CONTROL PLAN MUST BE APPROVED PRIOR TO STARTING CONSTRUCTION. SECURITY PLAN APPROVAL GENERALLY TAKES 40 DAYS FOR APPROVAL.
3. THE PUBLIC MUST BE SEPARATED FROM CONSTRUCTION BY AN APPROVED COMBINATION OF BARRICADES, BARRIERS AND/OR FENCES AS APPROPRIATE.

- SEQUENCE OF CONSTRUCTION & TRAFFIC CONTROL  
PHASE 3 - SOUTH AIR CARGO BUILDING C AND TRUCK STAGING AND EMPLOYEE PARKING AREA
1. PLACE ALL TEMPORARY TRAFFIC CONTROL DEVICES BEFORE CONSTRUCTION ACTIVITIES BEGIN
  2. CONSTRUCTION TO OCCUR WITHIN THE HATCHED AREA
  3. CARGO BUILDING D EMPLOYEES SHOULD CONTINUE TO PARK IN THE EXISTING PARKING AREA
  4. ALL TRAFFIC TO UTILIZE EASTERN MOST ENTRANCE DURING PHASE THREE CONSTRUCTION AS INDICATED



NO.				DATE	BY	REVISION
AIR CARGO BUILDING C						
PHASE 3						
CONSTRUCTION PHASING PLAN						
WBS NUMBER: D.07.55.009				DRAWN BY: SEI/JCS		
FC NUMBER: FC-6006007928-A				DESIGNED BY: SEI/JCS		
A/E PROJECT NUMBER: HII-0730621				CHECKED BY: SEI/CWE		
				APPROVED BY:		
				DATE: 11/25/2014		
				SCALE: 1" = 40'		
				SHEET NO: G 4.1.3		

NOT ISSUED FOR CONSTRUCTION





Hartsfield-Jackson  
Atlanta International Airport



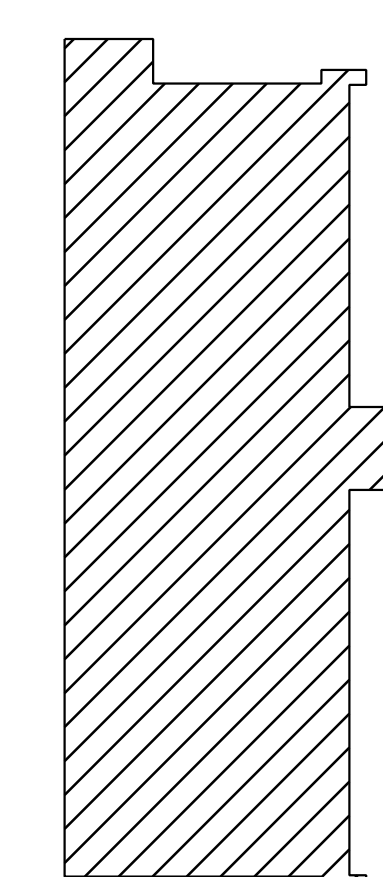
HEERY INTERNATIONAL, INC. 591  
PEACHTREE STREET, NE  
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PHONE: 404.419.9190  
FAX: 404.946.2017

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PHONE: 770.321.3938  
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100% CONSTRUCTION DOCUMENTS ISSUED FOR BID, NOVEMBER 25, 2014



KEY MAP

NORTH





AIR CARGO BUILDING C

## LEED SITE PLAN

WBS NUMBER: D.07.55.009	DRAWN BY: K. MILNER
FC NUMBER: FC-6006007929-A	DESIGNED BY: R. ANWAR
A/E PROJECT NUMBER: HII-0730621	CHECKED BY: D. POPE
	APPROVED BY: R. ANWAR
	DATE: 11/25/2014
	SCALE: AS NOTED
	SHEET NO: <b>G 6.1.1</b>

[illegible]

NORTH

A compass rose with a circle and four perpendicular lines. The top line is labeled 'NORTH', the bottom line is labeled 'SOUTH', the left line is labeled 'WEST', and the right line is labeled 'EAST'. The lines are labeled with their respective cardinal directions.

1  
G 4.1.1

## LEED SITE PLAN

SCALE: 1"=20'-0"